



Abstract of the Disclosure

A programmable/controllable anode and related methods of operation. An anode to be used with a metal deposition system containing a substrate acting as a cathode.

5 The anode includes a plurality of anode segments and an electrical source. The electrical source is coupled to each of the anode segments. In another aspect, the method comprises applying electrical voltage/current to one of said plurality of anode segments. The method continues by waiting for a prescribed duration, and then applying electrical voltage/current to another one of said plurality of anode segments. Another aspect comprises first sensing the electric field generated by the anode. The method finishes by controlling the electricity supplied between different ones of the anode segments to provide a uniform electric field.